

ABSTRACT

5 An ion detector for a mass spectrometer is
disclosed comprising one or more microchannel plates and
an anode arranged to receive electrons emitted from the
one or more microchannel plates. The anode preferably
has a smaller diameter than the microchannel plates and
10 is preferably arranged at a distance of at least 15 mm
from the microchannel plates. One or more focusing
lenses may be provided intermediate the microchannel
plates and the anode. The anode preferably comprises
two portions separated by an electrically insulated
15 layer.